

1. (Currently Amended) An antimicrobial polymeric coating composition, in particular an antimicrobial coating material, comprising core-shell particles having a core and at least one shell directly deposited thereon, wherein the core comprises nanoscale particles of an inorganic material with semiconductor properties having a particle size <100 nm, and the shell is formed by at least one ~~substance having an antimicrobial action,~~ ~~in particular by at least one~~ metal having an antimicrobial action.

2. (Cancelled)

3. (Previously Presented) The coating composition of claim 1 or 2, characterized in that the inorganic material is a nanoscale oxide, sulfide, carbide or nitride powder.

4. (Previously Presented) The coating composition of claim 1, characterized in that the inorganic material is a nanoscale oxide powder.

5. (Previously Presented) The coating composition of claim 1, characterized in that the inorganic material is titanium dioxide (TiO₂).

6. (Previously Presented) The coating composition of claim 1, characterized in that the metal is silver or copper.

7. (Previously Presented) The coating composition of claim 1, characterized in that the nanoscale particles which form the core possess a particle size of between 5 nm and 50 nm, preferably between 5 nm and 20 nm.

8. (Previously Presented) The coating composition of claim 1, characterized in that the coreshell particles possess a particle

size of between 5 nm and 100 nm, preferably between 10 nm and 50 nm, in particular between 20 nm and 45 nm.

9. (Previously Presented) The coating composition of claim 1, characterized in that the coat thickness of the shell is between 0.1 nm and 20 nm, preferably between 1 nm and 10 nm.

10. (Previously Presented) The coating composition of claim 1, characterized in that it is a water-miscible coating composition.

11. (Previously Presented) The coating composition of claim 1, characterized in that it is a coating composition based on acrylic resins or based on polyurethane.

12. (Previously Presented) The coating composition of claim 1, characterized in that it is a coating composition based on a powder coating material.

13. (Previously Presented) The coating composition of claim 1, characterized in that the coreshell particles are present in the composition in amounts of between 0.1% and 15% by weight, preferably in amounts of between 0.25% and 10% by weight and with particular preference in amounts between 2% and 4% by weight.

14. (Previously Presented) The coating composition of claim 1, characterized in that it is present as a coat on a substrate.

15. (Previously Presented) A process for preparing an antimicrobial polymeric coating composition of claim 1, characterized in that core-shell particles having a core of nanoscale particles of an inorganic material having a particle size <100 nm and a shell of at least one substance having an antimicrobial action are mixed, preferably homogenized, with an organic polymer material.

16. (Previously Presented) The process of claim 15, characterized in that the core-shell particles are produced using nanoscale particles of an inorganic material having a particle size <100 nm as core, and at least one metal is applied as a shell to these core-forming particles in solution or in suspension, by means of a radiation-induced redox reaction.

17. (Previously Presented) The process of claim 16, characterized in that the redox reaction is induced by UV radiation.

18. (Previously Presented) The process of claim 16, characterized in that the metal is copper or silver.

19. (Previously Presented) The process of claim 16, characterized in that following application of the shell the solvent is removed and preferably the powder thus obtained is calcined.

20. (Previously Presented) An article characterized in that it is coated at least partly, preferably completely, with the coating composition of claim 1.

21-26. (Cancelled)